

## Thermal Control Film for Spacecraft

### Abstract:

5           A thermal control film for use in spacecraft comprising a multi-layer  
interference filter adapted to exhibit high reflectivity to solar radiation, low  
absorptivity across the microwave spectrum and high emissivity in the far infra-  
red is provided. The film is free from metal and extends over the active face of  
an antenna carried by the spacecraft. Such a film exhibits the desired thermo-  
10   optical properties for a thermal control radiator surface and can be used over  
the active face of a communications or radar antenna without disrupting the RF  
signal.

Figure 5